

RADETIC; ZUPANIC

From the Rijeka Branch of the Union of Geodesic Engineers and
Geometers of Yugoslavia. Geod list 18 no.10/12:296-297 C-D '64.

FD 363

RADETSKAYA, E. M.
USSR/Physics - Alloys, Fatigue

Card 1/1

Author : Lashko, N. F. and Radetskaya, E. M.

Title : Fatigue processes of deterioration in alloys with "annealing twins"

Periodical : Zhur. tekhn. fiz. 24³, 417-424, Mar 1954

Abstract : Discusses nature and formation of annealing twin crystals and their effect on fatigue failure of alloys. Studies behavior of steels EI-437 and EI-395 in fatigue testing, concluding that not always and not in all alloys annealing twins cause fatigue cracks. Nine references; 8 USSR 1939-1953. Photomicrographs.

Institution :

Submitted : October 17, 1953

SOV/137-58-7-16054

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 302 (USSR)

AUTHORS: Sklyarov, N. M., Skladnov, I. K., Radetskaya, E. M.

TITLE: Effect of Temperature Stresses on the Strength of Heat Resistant Alloys (Vliyanie temperaturnykh napryazhenii na vynoslivost' zharoprochnykh splavov)

PERIODICAL: V sb.: Issled. po zharoprochn. splavam. Vol 2. Moscow, AN SSSR, 1957, pp 66-75

ABSTRACT: The investigation of temperature stresses on the strength of heat-resistant alloys was carried out on flat and hollow cylindrical specimens according to a specially developed method. Testing of flat specimens of heat-resistant alloys EI-437B and EI-617 electrically heated to 800°C with temperature drops of 50, 100, and 150° between the edges and the central portion of a specimen was made on the D. V. L. (Deutsche Versuchsanstalt für Luftfahrt) type machine. The hollow cylindrical specimens of EI-437A and EI-617 alloys, heated on the exterior in a furnace and air-cooled from the interior were tested at a surface temperature of 700° on Schenck-type machines. Hollow cylindrical specimens of the EI-437B alloy, cooled on the exterior

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SOV/137-58-7-16054

Effect of Temperature Stresses on the Strength of Heat-resistant Alloys

and heated through the interior cavity were tested at 700° surface temperature on Wehler-type machines. Measurement of temperatures was performed by the method of the natural thermocouple. Drawings of the specimens are given, together with a description of proposed methods for testing of heat-resistant alloys under concurrent action of temperature stresses produced by temperature differences and a vibratory load. It is established that a temperature drop of 50-150° in specimens heated internally and cooled externally can cause a 1-3 kg/mm² change in σ_w . During the testing of specimens with high stress concentration and a low σ_w , the relative decrease in σ_w attains appreciable values (up to 50% with a drop of 150°). As for the effect of temperature on the vibratory durability of alloys and also for the effect of the outer surface and the susceptibility of the alloy to the action of surface stress concentrators, various effects of a temperature drop on the σ_w can be observed.

1. Alloys--Properties 2. Alloys--Temperature factors

Z. F.

Card 2/2

Rade TS Kely N. E. M.

32-8-28/61

AUTHORS

Sklyarov, N.M., Radetskaya, E.M.
Skladnov, I.K.

TITLE

Method and Apparatus for Testing Fatigue under the
Influence of Stationary Thermal Stresses. (Metodika i
apparatura dlya ispytaniy na ustalost' pri deystvii
statsionarnykh temperaturnykh napryazheniy.)

PERIODICAL

Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 8, pp. 954-956
(USSR)

ABSTRACT

The work is divided into three sections, as follows:
 1. Examination of plane samples: The samples were heated by electric current and had a special form which permitted to determine a possible drop in temperature after an average load. By means of a special machine (DVL) the samples were subjected to various loads at various temperatures, and to constant external cooling by flowing water. The results showed that a considerable reduction of the fatigue limit occurred according to how much the drop in temperature was increased. Mathematically the case corresponds to the formula:

$$\sigma = \frac{E \alpha \Delta t}{2(1-\mu)}, \text{ where } \mu - \text{ signifies Poisson's coefficient,}$$

Δt - the drop in temperature, E - the modulus of

CARD 1/3

...jected
--- variation in this
--- to rules which are close to the

32-6-28/61

Method an Apparatus for Testing Fatigues under the Influence of Stationary Thermal Stresses:

Tests of fireproof alloys showed that under constant conditions of temperature and heat drop a heat drop of 50°C at an external temperature of 700°C effected a deviation of the fatigue curve and a reduction of the fatigue limit by 10 %.
(3 illustrations, 2 tables)

ASSOCIATION: None given.
AVAILABLE: Library of Congress.

CARD 3/3

RADETSKAYA, E M.

Akademika Nauk SSSR. Institut metallurgii. Nauchnyj sovet po problemam zhurna
prichinjavshim

Izdatel'stvo po narodopochtene i sluzhbe, t. 5 (Investigations of Heat-Resistant
Alloys), Vol. 5. Moscow, Izd-vo Akad. Nauk, 1959. 423 p. Karta slip inserted.
2,000 copies printed.

Ed. of Publishing House: V.A. Klymov; Tech. Ed.: I.P. Kur'yan; Editorial
Board: T.P. Savil'sh, Academician; G.V. Kudryavtsev, N.V. Agafonov,
Corresponding Member, USSR Academy of Sciences (Phys. Ed.), I.N. Oding,
I.I. Pavlov, and I.P. Zaitsev, Candidate of Technical Sciences.

PURPOSE: This book is intended for metallurgical engineers, research workers
in metallurgy, and may also be of interest to students of advanced courses
in metallurgy.

CONTENTS: This book, consisting of a number of papers, deals with the properties
of heat-resistant metals and alloys. Each of the papers is devoted to
the study of the factors which affect the properties and behavior of metals.
The effects of various elements such as Cr, Mo, Al, Ti, V on the heat-resisting
properties of various alloys are studied. Deformability and workability
of certain metals as related to the thermal conditions are the object of
another study described. The problem of hydrogen embrittlement, diffusion
and the deposition of carbide coatings on metal surfaces by means of
electroplating are examined. One paper describes the apparatus and methods
used for growing monocrystals of metals. Boron-base metals are critically
examined and evaluated. Results are given of studies of interatomic bonds
and the behavior of atoms in metal. Tests of turbine and compressor blades are
described. No personalities are mentioned. References accompany each
of the articles.

Lantsov, K.A., B.M. Kir'yayev, and F.I. Gorshkov. EI 756 Austenitic Steel	19
Entelius, I.P., T.A. Shchegoleva, G.Ye. Moshalniko, N.M. Kertch, and B.P. Kostylev. EI 757 High and Very High Resist. Chromium-Manganese Steel	25
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Sklarova, N.M., A.A. Platonova, E.M. Pechatnikov, and L.I. Shishkov. The Effect of Thermal Stresses on Strength, Ductility, and Vibrational Strength of Alloys	39
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Bogdanov, Yu.P., A.P. Klymov, and A.M. Rotanov. The Effect of Alloying on the Long-Term Modulus of Elasticity of Directional	50
El'mukh, N.M. Experimental Study of the Mechanics of Deformation of Nickel- Base Alloys	53
Jamayev, O.A., and I.P. Zaitsev. The Effect of Complex Alloying With Vanadium, Chromium, and Tungsten on the Kinetics of Hardness Changes in the Annealing of Cold-Worked Ferrite	63
Shestopalov, N.P., Yu.D. Malakhov, and M.I. Hill. The Effect of Vanadium on Creep Strength of Various Steels	75
Musikov, V.P. On the "Austenite" Relationship Between the Structure and Prop- erties of Intermetallic Boundary	78
Terlin, N.Y., E.M. Pavlik, V.S. Kalyatin, and B.E. Lyutynsky. Structure and Properties of Nickel Alloys Under the Long-Time Action of High Temperature	90
Laputina, I.M., and L.I. Fedorova. Effect of Temperature Variations on Creep Strength of 12 KhP Steel	115
Pechatnikov, K.V., V.A. Jamayev, and N.A. Kverstukulina. Study of Hydrogen Ex- plosibility of Low-Carbon Steels	119
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Rozov, N.V. Regularities of the Thermokinetic Change in Austenite and the Problems of the Development of New Alloys	137
Lebedeva, T.V., T.K. Marusina, and A.I. Jeffreys. Study of the Endurance Halt of Metals by Means of Registering the Fatigue Curve	143

S/853/62/000/000/004/008
A006/A101

AUTHOR: Radetskaya, E. M.

TITLE: The effect of temperature stresses upon the durability of heat resistant alloys

SOURCE: Termostoykost' zharoprochnykh splavov, sbornik statey, Ed. by N. M. Sklyarov, Moscow, Oborongiz, 1962, 79 - 85

TEXT: The author investigated the effect of temperature stresses upon the durability of heat resistant alloys 3И437 В (EI437B), 3И617 (EI617) and ХС3 (ZhS3) type alloys. Specimens shown in Figure 1 were subjected to the simultaneous effect of a stationary temperature field and alternating bending loads in a vertical plane. The specimens were heated with commercial frequency current. A heterogeneous temperature field, with differences from 50 to 150°C, was obtained by intensive cooling of the edges by an air flow. Bending tests were made on a DVL machine. In tests with high stress concentration in a heterogeneous temperature field, the decrease of the endurance limit was found to depend upon the magnitude of the temperature drop and consequently, upon the magnitude of

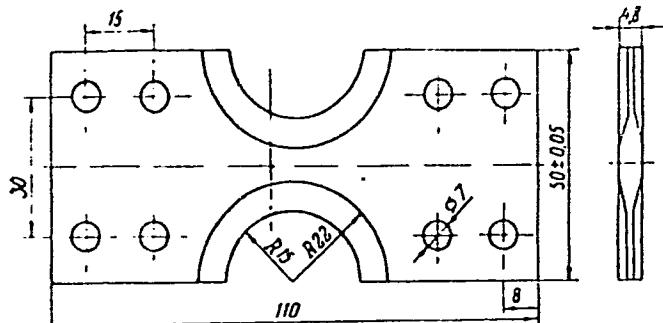
Card 1/2

S/53/62/000/000/004/005
A006/A101

The effect of temperature stresses upon...

temperature stresses; their increase reduces the endurance limit. The endurance limit of the specimen depends also upon the stress concentration at its edge; it decreases in a thinner edge. The strained state affects both the scale resistance of the alloy and the nature of its breakdown. The experimental determination of temperature stresses on specimens with a heterogeneous temperature field made it possible to obtain a quantitative relationship between the magnitude of temperature stresses and the temperature drop. There are 2 tables and 4 figures.

Figure 1. Specimen for thermal fatigue tests on a DVL machine



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L 45448-65 EWT(m)/EWP(w)/EWA(a)/T/EWP(t)/EWP(z)/EWP(b)/EWA(c) MJW/JD/GB
ACCESSION NR: AT5011338 UR/000/65/000/000/0039/0047 32

AUTHOR: Block, N. I.; Lashko, N. F.; Morozova, G. I.; Radetskaya, E. M. B+1

TITLE: Surface oxidation and phase changes in heat-resistant nickel alloys in
the stressed state 16 27

SOURCE: Fazovyy sostav, struktura i svoystva legirovannykh stalei i splavov
(Phase composition, structure, and properties of alloy steels and alloys).
Moscow, Izd-vo Mashinostroyeniye, 1965, 39-47

TOPIC TAGS: nickel alloy, heat resistant alloy, alloy phase transition, alloy
oxidation, surface oxidation, alloy structure, alloy fatigue, metal diffusion,
alloy aging, carbide formation 16 4

ABSTRACT: The aim of this work was to study the influence of stress on structural
changes related to diffusion processes in the surface and inner layers of heat-
resistant nickel alloys EI437B, EI617, and EI929. The specimens were fatigue-
tested, and their anodic deposits were analyzed chemically. In alloy EI437B,
the following phases were observed by x-ray analysis: intermetallic σ' phase
 $Ni_3(Al, Ti)$, containing a small amount of chromium; chromium carbides Cr_7C_3 and
 $Cr_{33}C_6$; titanium carbonitride $Ti(C, N)$. Aging of EI437B at 800°C is associated

Card 1/2

L 45448-65
ACCESSION NR: AT5011338

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with the phenomenon of recovery. Alternate loading of alloy EI617 at 800-1018C has no appreciable effect on the oxidation rate or on the migration of the alloying elements away from the surface layers as compared to the action of heat alone. The effect of stress on EI617 is manifested to a lesser extent than in the case of EI437B. Aging of EI617 at 900C is accompanied by its softening, which is extensive both during fatigue testing and during heating without a load. In the high alloy EI929, the application of loads at 900C has almost no effect on the phase composition. Orig. art. has: 5 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 17Dec64

ENCL: 00

SUB CODE: MM, SS

NO REF Sov: 004

OTHER: 002

ML
Card 2/2

L 4702E-16 BNP(m)/BNP(w)/T/BNP(t)/ETI LIP(c) JD/JH
ACC NRI AT6024918 (A, N) SOURCE CODE: UR/2981/66/000/004/0085/0106

50-1
50-2

AUTHOR: Anisimova, N. V.; Archakova, Z. N.; Belyayev, S. Ye.; Danilov, Yu. S.; Kishkina, S. I.; Petrov, Ye. A.; Plekhanova, N. G.; Ponar'ina, T. K.; Radetskaya, E. M.; Strunin, B. M.

ORG: none

TITLE: Mechanical properties of VAD23 alloy

SOURCE: Alyuminiyevyye splavy, no. 4, 1966. Zharoprochnyye i vysokoprochnyye splavy (Heat resistant and high-strength alloys), 85-106

TOPIC TAGS: aluminum alloy, solid mechanical property / VAD23 aluminum alloy

ABSTRACT: Sections and sheets of VAD23 alloy were tested in the artificially aged / state (16 hr at 170°C). From the standpoint of creep, stress-rupture strength and recovered strength, the properties of VAD23 are 20-25% higher than those of D16T under long-term performance conditions at 125-150°C. In compression at temperatures up to 150-175°C, the yield points of sheets and sections of VAD23 are 10-20% higher than in extension. From the standpoint of endurance and fatigue strength, VAD23 is not inferior to V95 alloy. VAD23 has a high sensitivity to notching and sharp cracks; sheets of VAD23 alloy display a high sensitivity to notching and cracking as compared to pressed semifinished products. / Orig. art. has 12 figures and 14 tables.

SUB CODE: 11/ SUBM DATE: none / ORIG REF: 003/ OTH REF: 005
Card 1/1 vmb

RADETSKAYA, M.V.

Use of maps in teaching morphology. Nauch.dokl.vys.shkoly; geol.-
geog.nauki no.2:235-238 '58. (MIRA 12:2)

1. Moskovskiy universitet, geograficheskiy fakul'tet, kafedra karto-
grafii.
(Geology, Structural--Maps)

(1)
AUTHOR: Radetskaya, M. V. SOV/6-58-10-15/17
TITLE: On Topographical Maps for Universities (O topograficheskikh kartakh dlya vysshikh uchebnykh zavedeniy)
PERIODICAL: Geodeziya i kartografiya, 1958, Nr 10, pp 74-77 (USSR)
ABSTRACT: From 1952 to 1953 topographical maps for teaching purposes were published by the Glavnoye upravleniye geodezii i kartografii MVD SSSR (Central Bureau of Surveying and Cartography at the Ministry of the Interior of the USSR) for the universities. The maps were compiled for alpine regions, highland regions, hill and moraine regions and for plains ,and for each of these regions maps being available to scales of 1: 25 000, 1 : 50 000, 1 : 100 000, 1: 200 000 and 1: 500 000 . The superiority of these maps with respect to execution and detail is underlined but also some deficiencies,that is tosay overcrowding,a sometimes unclear arrangement and a too limited range of features are pointed out. Some recommendations are advanced concerning the improvement of maps,above all with respect to clearness. There are 6 figures, 2 tables, and 4 references, which are Soviet.
Card 1/2

on Topographical Maps for Universities

SOV/6-50-10-17/17

Card 3/2

RADETSKAYA, M. V.: Master Geogr Sci (diss) -- "Geographical maps in lectures on geomorphology at the geographical faculties of universities (On the example of a course in general geomorphology)". Moscow, 1959. 16 pp (Moscow Order of Lenin and Order of Labor Red Banner State U im M. V. Lomonosov, Geogr Faculty)

KOGAN, M.I. [deceased]; BELYAKOVA, M.S.; SAVOST'YANOV, G.I.; KOGAN, R.M.;
RADETSKAYA, N.V.

Biochemical oxidation of *d*-sorbitol in *l*-sorbose in a continuous
disc-column fermenter. Trudy VNIVI 8:22-35 '61. (MIRA 14:9)
(Sorbitol) (Sorbose)

RADETSKIY, D.N.

Field geological rule. Razved. i okh. nedr. 30 no. 3:55-57 Ag '64.
(MIRA 17:10)

1. Mamsko-Chuyskaya ekspeditsiya.

ROSENBERG, M.I.; RADETSKIY, F.P. (Kherson)

Case reports of primary cancer of the lower portion of the duodenum.
Klin.med.34 no.11:67-69 N '56. (MIR 10:2)

1. Iz Gorodskoy bol'nitsy No.1 Khersona (glavnnyy vrach N.N. Gerasimenko)

(DUODENUM, neoplasms
diag. of cancer of lower portion)

LOBACH, N.N.; RADETSKIY, L.M.

Machine packaging of granulated sugar. Sakh.prom. 30 no.7:33-35
J1 '56. (MLRA 9:11)

1. Khodorovskiy sakhariny zavod.
(Packaging machinery)
(Sugar industry--Equipment and supplies)

RADETSKIY, R.K., inzh.; REBROV, A.N., inzh.

Spanning of the Kama River bed in the area of the Votkinsk
Hydroelectric Development. Energ. stroi. no.31:52-57 '62.
(MIRA 16:7)

1. Stroitel'stvo Votkinskoy gidroelektrostantsii.
(Kama River) (Dams)

A. Lebedev, A. I.

Cand. Agricult Sci

Dissertation: "Technical Standardization of Works Connected with Forestry."

1 July 49

Moscow Forestry Engineering Inst.

**SO Vecheryaya Moskva
Sum 71**

RADETSKIY, V. I.

Ruchnye orudija i instrumenty dlia lesokul'turnykh rabot. Moskva, Goslesbumizdat, 1949.
79 p. diagr.

Hand tools and instruments for forest exploitation.

DLC: SD388.R3

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress,
1953.

VORONIN, Ivan Vasil'yevich, dotsent; VASIL'YEV, Prokofiy Vasil'yevich, prof.; ALTSYSHKIN, Sergey Petrovich, inzh.; ISHIN, Dmitriy Petrovich, inzh.; KOSTYUKOVICH, Fedor Trofimovich, dotsent; MAKAROV, Grigoriy Yefimovich, inzh.; RADETSKIY, Vitaliy Il'ich, kand.sel'skokhoz.nauk; SABO, Yevgeniy Dyul'yevich, kand.tekhn. nauk; SUDACHKOV, Yevgeniy Yakovlevich, doktor sel'skokhoz.nauk; FEDOROVYKH, Mikhail Leonidovich, assistant; YANYSHKO, Anatoliy Davydovich, assistant; FUKS, Ye.A., red.izd-va; KUZNETSOVA, A.I., tekhn.red.

[Organizing and planning work at forestry enterprises] Organizatsiya i planirovanie proizvodstva na predpriatiakh lesnogo khoziaistva. Moskva, Goslesbumizdat, 1960. 328 p.

(MIRA 14:2)

(Forest management)

L 27260-66 EWP(k)/EWT(d)/EWT(m)/EWP(h)/EWP(1)/EWP(v)/EWP(t) IJP(c) JD/HW

ACC NR: AP6009506 SOURCE CODE: UR/0413/66/000/005/0010/0010

36
B

AUTHORS: Radetskiy, V. S.; Shekhtman, I. Ye.

ORG: none

TITLE: Drawing die. Class 7, No. 179267 [announced by the Odessa Factory of Food Machinery Construction (Odesskiy zavod prozvodstvennogo mashinostroyeniya)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 5, 1966, 10

TOPIC TAGS: metal drawing, metal forming press, metal stamping, die

ABSTRACT: This Author Certificate presents a drawing die assembly for large parts, mounted on a double-acting press and containing a drawing die, die, push rod, clamping plate, and ejector (see Fig. 1). To permit drawing of parts with internal dimensions larger than the dimensions of the inner slide of the press, the drawing die is stepped and is freely placed on the shaft which has a stepped rod for retracting the drawing die. The clamping plate is also stepped and is rigidly connected to the outer slider of the press.

Card 1/2

UDC: 621.983.3.07

L 27260-66

ACC NR: AP6009506

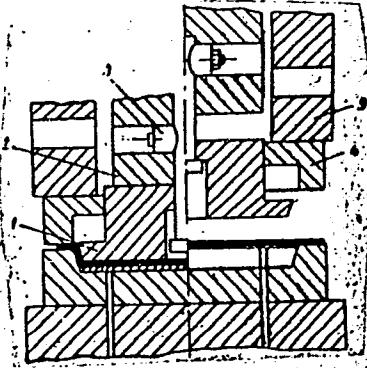


Fig. 1. 1 - drawing die;
2 - plunger; 3 - retracting
rod; 4 - clamping plate;
5 - outer slider.

O

Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 24Feb64

Card 2/2 CC

RADETZKY, Jeno, tanar

More protection for the birds of the Lake Velence. Elovilag
2 no.437-39 O-D '57.

RADETZKY, Jeno, tanar

Toward new reservations. Term tud kozl 5 no.3:129-130 Mr '61.

1. Velencei Intezo Bizottsag Agardi Kutatoallomasa vezetoje.

RADETZKY, Jeno, dr., tanar

Map of Lake Velence. Term tui kozl 5 no.9:432 S '61.

1. VIB Velencei-tavi Kutatoallomas vezetoje.

RADETZKY, Jenő

A letter to the editor. Elovilág 6 no.1:58 Ja-? '61.

1. Velencei-tavi Kutatoallomas igazgatoja.

RADETZKY, Jeno

Fight for more fishes. Elovitag 6 no.2:23-26 Mr-Ap '61.

1. Velencei-tavi Intezc Bizottsag kutaloallomasanak
vezetoje.

RADETZKY, Jeno

The Research Station of the Lake Velence at work. Elovilag 8
no.1:3-10 Ja-F '63.

1. Velencei-tavi Kutatoallomas vezetoje.

RADETZKY, Jeno, gimnaziumi tanar

Research Station at the Lake Velence. Term tud kozl 6 no.5:
231-233 My '62.

1. Velencei-tavi Kutatoallomas vezetoje.

RADETZKY, Jeno, gimnaziumi szakfelugyelo

Frogmen in the Lake Velence. Elovilag 7 no.3:25-30 My-Je '63.

1. Velencei-tavi Tudomanyos Kutatoallomas vezetoje.

RADETZKY, Jeno

About Hungarian stamps. Term tud kozl 7 no.3:118 Mr '63.

RADETZKY, Jeno

Water level and the living world of lake Velence. Term tud
kozl 7 no.7:301-304 Jl '63.

1. Velencei-tavi Kutatoallomas vezetoje, Szekesfehervar.

RADETZKY, Jeno

Were birds pleased with the "summer" in November? Ele~~t~~ tud
18 no. 52:1644-1645 29 D '63.

1. Velencei-tavi Kutatoallomas vezetoje.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343"

CSIBA, Lajos; VASARHELYI, Istvan; RADETEKY, Jeno; PAKAI, Imre, dr.; TERNYAK,
Jeno; SCHAFER, Lajos

Data on the birds of prey. Aquila 69/70:258 '62-'63 [publ. '64].

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013439

Kalatzky, Jene, gilmarijne tener

Remark about the article entitled "Yugoslavia as seen by a
biologist." (ver cui kis) 8 no.4.183 ap '64.

RADETSKY, Jeno

A diplomata "stunt." Term utv kozl 9 no.1:38-39 ja '65.

I. Head, Research Station of Lake Velence.

JAKAB, Andras; SCHAFER, Lajos; TAPFER, Dezso, dr.; RADETZKY, Jeno;
PATKAI, Imre, dr.; BABAY, Karoly; SOLYMOSSY, Laszlo, dr.;
GYORY, Jeno; FEKETE, Karoly; FERENCSZ, Miklos; GERHBY, Gyorgy;
SZEMERE, Laszlo; SAGHY, Antal, dr.; CSABA, Jozsef; KEVE, Andras,
dr.; AGARDI, Ede; KOFFAN, Karoly; SCHMIDT, Egon

Data on the avifauna of Dunantul. Aquila 69/70:260-266 '62-'63
[publ. '64].

ANDRIY, A.

"Significance of the new physical measuring methods in controlling mass production and investigation of construction materials."

ppm. TTKLOMVC: Vol. 4, No. 4, 1959; Sofia, Bulgaria

MONTHLY LIST OF EAST EUROPEAN ACCESSIONS INDEX (EEAI), Library of Congress,
Vol. 4, No. 8, August, 1959

Unclassified

RABIN, Asen, inzh., MEDNIKAROV Kiril, inzh.

Device for determining discharge rate of storage battery
during the time of its operation. Ratsionalizatsiya 14
no. 10:37-40 '64.

S/194/61/000/012/073/097
D273/D301

AUTHORS: Radev, At. and Radeva, K.

TITLE: Ultrasound in modern analytical chemistry

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,
no. 12, 1961, 17, abstract 12E94 (Khimiya i industriya (B"lg.), 1960, 32, no. 5, 146-149)

TEXT: In analytical chemistry the following phenomena are generally utilized when ultrasound is propagated through a substance: Change of velocity C (S) of the ultrasound in a solution or mixture depending on the concentration of the solute; depolarization; dispersion, coagulation, mixing acidity, increased rate of solution; increase in sonic oscillations in gases under the action of a periodically interrupted flow of warm radiation. In addition, by studying the dispersion of S it is possible to investigate the molecular properties of liquids. It is also possible to study solutions by absorption of ultrasound. Kudryatsev's work of establishing a relation between S and the concentration of solute is men-

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S/134/61/000/012/073/097
D273/D301

Ultrasound in industry ...

tioned. It is shown that this relation - in the case of single component solutions or multicomponent solutions where only one component is varied - makes it possible to speed up and retain the quality of an analysis with sufficient practical accuracy. Such an analysis can be successfully applied in control and regulation of the whole range of technological processes in the chemical industry. By a similar method it is simple to maintain automatically constant a given concentration. A pulse method of measuring S is described. Results are given of work by Partkhasaratkhii on study of the dependence of S on the chemical structure of organic materials. A gas analyzer is described which works on the principle of measuring of S. It is shown that gases and vapors which absorb infrared rays, subsequently periodically exposed to these rays at the frequency of sound, gradually oscillate with the same frequency. This peculiarity makes it possible to have an optico-acoustic method of analysis of gaseous mixtures. A corresponding gas analyzer is described. It is noted that in electrochemical processes an important part is played by the depolarizing action of ultrasound,

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Ultrasound in modern ...

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D273/D301

and as a consequence the precipitation potential is lowered. The sounding of a solution in the electrolysis of water leads to a change of composition and of the character of the electrolytic precipitation, and also of the rate of precipitation. Ultrasound lowers the excess voltage of hydrogen at the cathode to such an extent that precipitation takes place in aqueous solutions of Al and Mg. Ultrasound noticeably shortens the electro-precipitation rate of Cu and Sn. The coagulation effect of ultrasound is used in the filtration of highly dispersed systems. With ultrasound it is possible to clarify various solutions, to increase the rate of solution, to quicken heterogeneous reactions, to remove the chemical passivity of Fe and Cr in relation to acids. The largest application of ultrasound resides in extraction processes, particularly in work with radioactive solutions and in those cases when the continuous action of the extractor is unsuitable. 5 figures. 8 references. *[Abstractor's note: Complete translation.]*

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(EUCALYPTUS) (HERBS) (OILS)
(DYSENTERY, BACILLARY)

• 100 •

Dr. László Bognár, MD, Epidemiology and Infectious Diseases (Katedra
egészségügyi epidemiológiájának és fertőző betegségek) Head (Főképzőmester na katedra-
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CATEGORY	:	Chemical Technology. Chemical Products and Their Applications--Industrial organic synthesis.	
ABS. JOUR.	:	ÄZKhim., No. 21 1959, No.	75653
AUTHOR	:	Pankov, G., Radiev, R., and Tsenkov, Ts.	
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TITLE	:	The Synthesis of Chemical Products from Carbon Monoxide and Hydrogen	
ORIG. PUB.	:	Tezhka Promishlenost, ?, No 7, 34-37 (1958)	
ABSTRACT	:	A brief survey of advances in the field of the synthesis of solid hydrocarbons, methanol, higher alcohols, aldehydes, ketones, and acids from CO and H ₂ . The bibliography lists 8 titles. A. Artem'yev	
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